

EPA Region 5 Records Ctr.



248042

**PRC**

June 23, 1997

Mr. Michael Bellot  
Remedial Project Manager  
Remedial Response Unit No. 1 (SR-6J)  
U.S. Environmental Protection Agency Region 5  
77 West Jackson Boulevard  
Chicago, IL 60604

**Subject: Technical Review of Cap Repair 100 Percent Design  
Blackwell Forest Preserve Landfill  
Contract No. 68-W8-0084, Work Assignment No. 84-5P6Y**

Dear Mr. Bellot:

PRC Environmental Management, Inc. (PRC), has reviewed the above-referenced design document dated June 1997. The design document was prepared by Montgomery Watson for the Forest Preserve District (FPD) of DuPage County, Illinois.

PRC's review of the design document focused on evaluating the technical adequacy of the design and specifications for cap repairs and integration of the cap repair activities with the design of the leachate collection system for the Blackwell Forest Preserve Landfill. PRC also reviewed the document for consistency with the resolutions reached during the April 23, 1997, meeting between FPD and the U.S. Environmental Protection Agency (EPA). PRC's review of the design document indicates that overall, the design and specifications are technically adequate. However, the following comments should be addressed to minimize any delays during cap repairs.

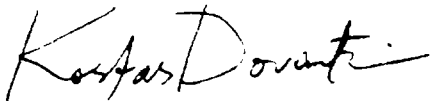
1. **Section 01010, Page 2, Item 1.02 A.14, Bullet 2, Lines 5 and 6.** The text states that 2 feet of clay soils will be placed in Areas 4 and 5, compacted, and graded to match design grades. However, the design grades for Areas 4 and 5 are not shown in any design drawings. The design drawings should be revised to show design grades in Areas 4 and 5.
2. **Section 01010, Page 2, Item 1.02 A.14, Bullets 2, 3, and 4.** The text states that soils excavated from Area 3 will be placed in Areas 4 and 5. However, the text does not clarify how the soil will be handled if it contains landfill waste. Because the possibility of excavating waste along with soil in Area 3 cannot be ruled out, the text should be revised to indicate that either Area 5 will not be regraded using soil mixed with waste or that if it is, the area will be covered with clean soil. In addition, under Bullet 4, the phrase "will regraded" should be revised to read "will be regraded."
3. **Section 01010, Page 4, Item 1.03 D.** The text states that excavation of landfill waste is not anticipated. However, the possibility of excavating waste along with soil in Area 3 cannot be ruled out. Therefore, the text should be revised to include procedures for handling waste that may be excavated along with soil in Area 3.

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4. **Section 02220, Page 5, Item 3.02 J.** The text requires the cap repair contractor to protect existing structures and buried utilities, including storm sewers, during excavation. However, the locations of these structures and utilities are not shown. The design drawings should be revised to show the locations of any structures and known buried utilities to be protected during cap repair excavation activities.
5. **Section 02270, Page 5, Item 3.04.** The text refers to installation of erosion control blankets on slopes steeper than 5H:1V and silt checks. However, the design drawings do not show areas with slopes steeper than 5H:1V and the locations for installing silt checks are not shown in any design drawing. The design drawings should be revised to show the locations for installing the erosion control blanket and silt checks if these items are needed during cap repair activities. In addition, design drawings should include details for silt checks if they are to be implemented during the cap repairs.
6. **Section 03300, Page 1, Item 1.01 B.2 and B.3.** The text lists items that require cast-in-place concrete and steel reinforcement. The text should be revised to include the landfill gas stack foundation pad to the list.

If you have any question regarding these comments, please call me at (312) 856-8757.

Sincerely,



Kostas Dovantzis, Ph.D., P.E., D.E.E.  
Site Manager

cc: Thomas Short, EPA Project Officer  
Marguerite Hendrixson, EPA Contracting Officer  
Majid Chaudhry, PRC  
Manoj Mishra, PRC